

SIBFLOOR HARDTOP INDUSTRIAL

Self-levelling for industrial renovation

AT GLANCE

Thickness from 5 to 30 mm

Pumpable

Indoor Use

Custom dark color range

Joint free flooring

Polished concrete look

Matte to high gloss finish

Fast drying

Easy application

Low shrinkage

High compression resistance

High flexion resistance

High abrasion resistance



Manufacturer

SIB, Sociedade Industrial
De Britagem De Pedra, LDA

DESCRIPTION

SIBFLOOR HARDTOP INDUSTRIAL is a self-leveling mortar that can be used to create resistant and highly durable floors from 5 mm thick. Due to its properties, SIBFLOOR HARDTOP INDUSTRIAL can be applied without joints.

SIBFLOOR HARDTOP INDUSTRIAL is based on selected aggregates and special cements and is designed for indoor use on concrete substrates.

SIBFLOOR HARDTOP INDUSTRIAL can be custom made in dark colour range.

FIELDS OF APPLICATION:

SIBFLOOR HARDTOP INDUSTRIAL can be used in high-wear indoor areas such as the renovation of industrial concrete floors: commercial and industrial areas, schools, museums, restaurants, airports, parking lots, etc...

TECHNICAL PROPERTIES AND CHARACTERISTICS

Aggregate size	< 3,5 mm
Compressive strength (EN 13892-2)	40 MPa* (N/mm ²)
Flexural strength (EN 13892-2)	11 MPa* (N/mm ²)
Abrasion resistance (EN 13892-4)	AR 0,5*
Adhesion to concrete	> 2 N/mm ² *(28 days)
Application temperature	Min. +5°C (41°F), max. +35°C (95°F)
Application thickness	5 – 30 mm
Drying time	1 – 3 hours
Consumption	2 kg/mm/m ²
Shrinkage	< 0,03 %
Fire resistance (EN 13501-1)	A1fl
Mixing ratio	11 - 13% (25 kg of SIBFLOOR HARDTOP to 2,75 – 3,25 l of water)
Opening time	20 - 30 minutes at 20 °C. The opening time depends on a lot of factors such as wind and the air and floor temperatures. Furthermore, drying time is dictated by the product temperature and the water used. For these reasons we always recommend to test a small area prior to starting full coverage.
Drying time	Grind and polish: 1 – 2 days Light traffic – 24 h Heavy traffic – 7 days

*Technical results may vary depending on site conditions, age of SIBFLOOR HARDTOP INDUSTRIAL. In addition, the percentage of water influences the final strength of the material.

Ambient temperature, support and product: 5 to 35°C (41 to 95°F) – Outside of this range, the application, aesthetic or mechanical properties of the product, as well as its adhesion can be altered.

SUPPORT PREPARATION

Before application, ensure that the surface is stable and has a tensile strength of at least 1.5 MPa. The support must be dry, free from any traces of pollution and humidity.

Mechanical preparation of the surface is recommended, using a diamond, milled, sandblasted or sanded mechanical process. Cracks, holes and other deeper defects must be filled and repaired.

SIBFLOOR HARDTOP INDUSTRIAL can be used to repair holes, etc., before applying a final coat over the entire surface. If SIBFLOOR HARDTOP INDUSTRIAL is used for repairs, open the pores and reapply SIBECOPRIMER A6 primer before subsequent applications.

The support must be vacuumed to remove all dust, debris and loose particles before applying the primer. Apply SIBECOPRIMER A6 (see product technical sheet for more information) or epoxy and sand.

Use foam, special tapes or other flexible separators to avoid direct contact with the material and walls, columns or tubes or other objects going through the floor.

To reduce the risk of cracks appearing due to base retraction, it is not recommended to apply SIBFLOOR HARDTOP INDUSTRIAL to substrates that have cured for less than 28 days.

If the base is not cement-based, consult our Technical Department.

APPLICATION

Prepare the work area to ensure continuous application without joints. A more uniform application will be achieved if the product is applied continuously.

SIBFLOOR HARDTOP INDUSTRIAL can be mixed and pumped. Adjust the amount of water to achieve the required amount of fluid to form a homogeneous, lump-free and uniform color mixture (2,75 to 3,25 l of water to 25 kg of SIBFLOOR HARDTOP INDUSTRIAL). Regular checks should be made to ensure that the correct consistency of the material is maintained.

SIBFLOOR HARDTOP INDUSTRIAL can also be applied manually. Mix in a clean container with a high-speed electric mixer for 3 to 4 minutes, until a homogeneous mixture is obtained without lumps. Let stand for 2 to 3 minutes, then mix again for another 30 seconds.

Do not mix SIBFLOOR HARDTOP with anything but clean water and do not change the mixing ratio.

Pour the mixture onto the floor and spread it to the desired thickness using a gauge rake. Then, use a roller with fine metal spikes to release any air bubbles and remove any remaining trowel marks. The roller should only be used on the top layer, without applying pressure.

A test sample must be made before application to adjust the correct amount of water to be used in the mixture and to test workability and drying time. Wind, air temperature and substrate humidity influence the product's workability and drying time.

Once the material begins to dry, it should not be touched anymore. Leave to dry for 1 to 3 hours.

SIBFLOOR HARDTOP INDUSTRIAL dries relatively quickly. Do not mix bigger quantities greater than the application capacity and regularly wash machines, pipes and tools.

GRINDING AND POLISHING

SIBFLOOR HARDTOP INDUSTRIAL can be grinded and polished after 1 to 2 days at normal conditions. To achieve the right appearance and correct sealing of the floor you need to grind until the surface film created during the curing is removed.

Polishing any coating requires a high degree of experience and skill. SIBFLOOR HARDTOP is polished with diamond tools – Several polishing steps are required to obtain a polished surface. Consult the technical department to know the polishing protocol.

The grinding process can create pores in the surface. Fill the pores with SIBECO FILLER during the polishing process. Check the Technical data sheet for more information.

SEALING

SIBFLOOR HARDTOP INDUSTRIAL must be sealed depending on usage. Consult the technical department for more information on the appropriate sealing system for each situation.

PRODUCTION, PACKAGING, STORAGE AND EXPIRY DATE:

SIBFLOOR HARDTOP INDUSTRIAL is available in 25kg (55,1 lbs) bags.

The product can be stored in its original packaging for 12 months in a dry place at a controlled temperature (not below 0°C/32°F). Recommended storage is between 10 and 25°C (50°F and 77°F).

COMPLEMENTARY INFORMATION:

Support preparation is essential for a good result. The flatter and more level the support, the better the end result.

Note that this product is a mineral product. The colors of floors made with SIBFLOOR HARDTOP INDUSTRIAL are not always uniform, a typical characteristic of this type of product. In addition to the inherent nature of this type of product, differences in tones and marks can also be caused by the way the product is applied, differences in temperature and substrate. To ensure a uniform appearance, it must be applied continuously without interruption. Attention to slight color differences due to the use of different production batches. Ensure that the application can be carried out with the same production batch.

The application has to be protected from drying too quickly (due to either drafts or intense heat from the sun) for at least 24 hours. Do not cover the finished surface with plastic or other materials.

Do not use SIBFLOOR HARDTOP on substrates which are subject to rising damp (consult the Technical Department for more information).

Before using SIB products, consult applicable data sheets, protocols, product labels and safety data sheets. On request from your consultant.

Wash tools with clean water and dry them before and immediately after use.

It is the user's responsibility to read the instructions and warnings for any SIB product before using it. The valid updated data sheet can be found at www.sibland.company.

WARNING:

Use suitable PPE: impermeable gloves, boots and protective goggles.

Use material only in well-ventilated areas. Exposure to cement dust may irritate eyes, nose, throat and the upper respiratory system/lungs. Silica exposure by inhalation may result in the development of lung injuries and pulmonary diseases, including silicosis and lung cancer. Seek medical treatment if you experience difficulty breathing while using this product. The use of a NIOSH/MSHA-approved respirator (P, N- or R-95) is recommended to minimize inhalation of cement dust. Skin contact with dry material or wet mixtures may result in bodily injury ranging from moderate irritation and thickening/ cracking of skin to severe skin damage from chemical burns. If irritation or burning occurs, seek medical treatment. Protect eyes with goggles or safety glasses with side shields. Cover skin with protective clothing. Use chemical resistant gloves and waterproof boots. In case of skin contact with cement dust, immediately wash off dust with soap and water to avoid skin damage. In case of skin contact with wet concrete, wash exposed skin areas with cold running water as soon as possible. In case of eye contact with cement dust, flush immediately and repeatedly with clean water, and consult a physician. If wet concrete splashes into eyes, rinse eyes with clean water for at least 15 minutes and go to the hospital for further treatment.

See the complete Product Safety Data Sheet.

LIMITED WARRANTY:

SIB - Sociedade Industrial De Britagem De Pedra, LDA warrants its materials to be of good quality and, at its option, will replace or refund the purchase price of any material proven to be defective within one (1) year from date of purchase. The above remedies shall be the limit of SIB's responsibility. Except for the foregoing, all warranties expressed or implied, including merchantability and fitness for a particular purpose, are excluded. SIB shall not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of the materials. In order to obtain all the results and technical properties of the products, all SIB specifications and instructions on transport, storage, use, application and maintenance must be fully complied with, otherwise, SIB does not guarantee the technical results and properties of the products.

The warranty does not cover scratches, which are normal for this product. The guarantee is associated with correct maintenance procedures. This warranty does not apply and SIB is not responsible for small surface marks and color variations. Due to the raw materials used in the manufacture of the products, small surface marks and/or color variations may occur. These are not considered product defects as they are inherent to the manufacturing process.